

News from The Arboretum

of Los Angeles County

February/March/April 2003

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Earl D. Breithardt

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Clay E. Bell

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Jeff Davis

Sybil Duenkel

Frank Hubbard

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Pat Holt

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Peter C. Atkins

John Van Maten Jr.

Jim Baumel

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Alan R. B.

Dennis Bera

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Hoa Nguyen

Shu Hui

Forrestell

Donna Escobedo

Joan McGuire

LEPHLANDER

Frank McDonogh

David Lofgren

Nancy Liviano

Drena Woods

Sandie Harrington

Kathryn Smeltzer

George Reuter

Julie Norman

Julie Norman

Sandy Snider

Timothy R. Phillips

Sherry Tabin

Veda Williams

Dan Hume

Susan Curtis

Chad Kavchong



Happy New Year from The Arboretum Staff

We all wish you a New Year of much joy
and celebration and hope that you will
visit us often at The Arboretum in 2003.

INSIDE THIS ISSUE:

- 2 Message from Peter Atkins
- 3 The Allspice Tree
- 4 Christopher Lloyd Lecture
- 4 Fresh Cooking Class

- 5 Just For Kids
- 6 Photosynthesis
- 6 Korean Garden Festival
- 7 Volunteer Orientation

- 7 Mediterranean Cooking
- 7 Recommended Reading
- 8 Baldwin Bonanza
- AND a Calendar of Classes & Events

WINTER AT THE ARBORETUM

It's difficult to believe that the winter season with its turbulent weather is passing us by. I view the gusty, whipping wind and torrential rainstorms as Nature's way of cleaning out the withered, dead and decayed, with promises of a beautiful spring renaissance around the corner.

Many things are happening at The Arboretum at this time:

Gilbert N. Resendez has joined our Board of Trustees. He is Executive Vice President of Monrovia Growers. Gilbert joins the Board at a time when his knowledge and experience will be a great asset to our very ambitious future.

Russ Guiney, Chief Deputy, and Donald Allen, Assistant Director of the Regional Facilities Agency, have become part of the Los Angeles County's Department of Parks and Recreation. We look forward to working with them as invaluable partners of our institution.

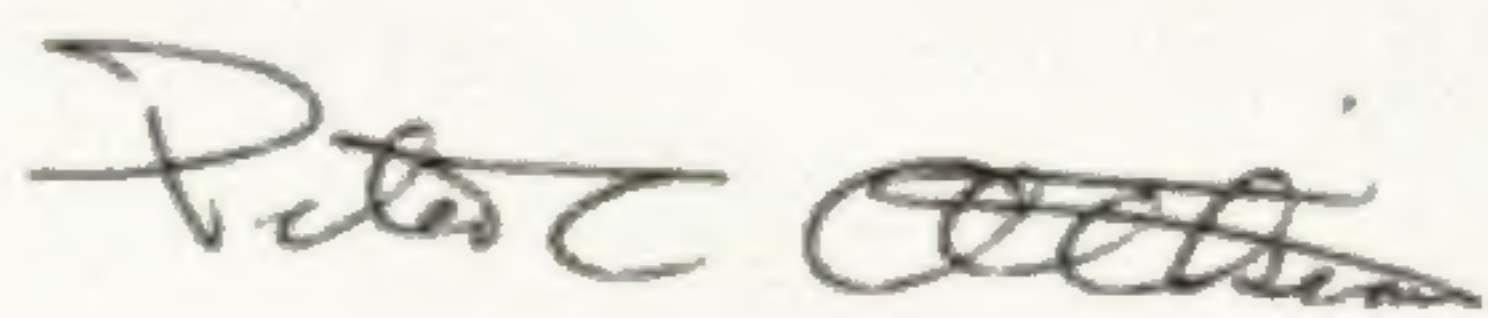
Board member Alan Tekerlek and his wife Chumi Paul have graciously accepted the positions of co-chairs of the committee coordinating The Arboretum's 33rd Baldwin Bonanza Party. The party will take place on the evening of **Friday, May 2nd**. Please reserve this date for what promises to be a fabulous evening.

We have begun implementing a recent allocation of funds from Los Angeles County in order to modify our facilities in becoming more ADA compliant. The \$175,000 is initially going towards design, bathroom modifications, and drinking fountain

changes. Additionally, we have identified other necessary changes. Some are being implemented and others are planning for in scheduled phases.

The conceptual long-range plan is almost finalized. The Arboretum certainly has a bright future, with lots of exciting changes, expanding programs, as well as additional garden features and buildings to better house our offerings. We plan to have an inviting entrance which will increase visitors' expectations as they approach and enter our beautiful grounds. We have much to do in order to make this a reality and it will require everyone's assistance to attain our rightful place in the botanic garden world.

So, please visit our garden soon. The Arboretum is constantly changing and we invite you to stop by to say hello, ask questions, or take a closer look at our plans for our future.




SAVE THE DATES MAY 3 & 4 BALDWIN BONANZA PLANT SALE

FOUNDATION PRESIDENT, GEORGE BRUMDER

DEAR ARBORETUM FRIENDS,

There are two things I'd like to say to you:

First, we urge you to give your attention to the conceptual long-range plan for The Arboretum. We want the plan to be the best that it can be, and your input can be invaluable. Please be in touch with

Peter, or with me, with any comments, questions and suggestions you have. We hope to hear from you.

Second, please be on the lookout for information about this year's Baldwin Bonanza. You've probably noticed that it's been getting bigger and better each year. This year will be no exception, and the Preview Party, co-chaired by Chumi and foundation trustee Alan Tekerlek, promises to be quite something. We hope you'll want to participate, and look forward to seeing you at The Arboretum the first weekend in May.

On behalf of the foundation trustees, I thank you for your continuing interest, support and involvement. With all good wishes,
George

LOS ANGELES ARBORETUM FOUNDATION BOARD OF TRUSTEES 2003

George A. Brumder <i>President</i>	John R. Fee	Gilbert N. Resendez
G. Arnold Mulder <i>First Vice President</i>	Walter E. Garrison	Mickey Segal
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The Arboretum Newsletter is published by the Los Angeles Arboretum Foundation. The Arboretum of Los Angeles County is jointly operated by the Los Angeles Arboretum Foundation and the County of Los Angeles.

FEBRUARY, MARCH AND APRIL 2003 CLASSES AND ACTIVITIES

PLEASE CALL (626) 821-4623 FOR RESERVATIONS

THURSDAY MORNING SEMINAR SERIES FOR ENTHUSIAS- TIC GARDENERS AND GARDEN DESIGNERS

Winter Series

8 Thursdays,
Jan. 9 - Mar. 6:

Spring Series

8 Thursdays,
March 27 - May 15:
9:45 - 12 noon

Lecture Hall A

\$120 for all
8 seminars / \$90 for 4
seminars / \$35 for a
single seminar

January 9th: Chris Rosmini will lead a discussion of 'What Is a Garden?'

January 23rd: Clair Martin will speak on choosing roses.

January 30th: a field trip -- possibly to Nuccio's in Altadena, grower of camellias and azaleas.

February 6th: Sean O'Hara, 'Our Mediterranean Climate'

February 13th: Nan Stermann, 'Plant Soup - Lesser-known Native, Mediterranean and Southwest Desert Area Plants'

February 20th: Jan Smithen, Gardening Under Mediterranean Skies

February 27th: Lili Singer, 'Who's That In My Garden?' -- a focus on pests, and pest management.

March 6th -- to be announced.



Peg Rahn and Susan Kranwinkle delight their audience at the Fresh Fundraiser.

FRESH: CELEBRATING THE TABLE!

Thursday classes
from 3-5 pm.

Saturday classes
10 am-noon.

\$45 / \$50 non-members
per class

This Arboretum series encompasses all things wonderful about the kitchen table - from the garden that grows the food to recipes, seasons, and festive decorations that celebrate our love for eating - this series is very popular so sign up early as the classes often sell out completely!

Join cookbook authors, restaurant chefs, caterers, florists, gardeners and other "foodies" as they instruct two-hour workshops.

Demonstrations, tastings and loads of ideas and information to use at home are included.

WINTER DINNER WITH STEVEN MARY OF THE GRILL AT THE RITZ-CARLTON

Thursday, February 20

Join Steven as he brings to our table a three-course meal to take the chill out of winter. He will create a soup, main course, and a scrumptious dessert, all with the freshness and flair for which he is famous!

MOUTH-WATERING DINNER PARTY WITH ALEXANDRA POER SHERIDAN

Thursday, March 6

Alexandra is known for her flair and unique presentation of interesting cuisine - join us as she presents a simple yet elegant menu for a spring dinner. As always with Alexandra, you will leave with the confidence to try many new ideas and recipes in your own kitchen.

ELEGANT AND INNOVATIVE MEXICAN CUISINE WITH HUGO MOLINA

Saturday, March 22

Taste delicious food from various regions of Mexico as prepared by Hugo. He has recently opened his new restaurant, The Spanish Kitchen, on La Cienega, that features his own style of Mexican food that originates in areas of Pueblo, the Yucatan and elsewhere.

CELEBRATING SPRING - A FLORAL FANTASY

Thursday, April 3

Create (and take home!) a wonderful arrangement of spring flowers for your table! Bring clippers and gloves. Instructor to be announced.

SUMMER FRUIT PASTRIES WITH JOAN COLLINS OF WILDFLOUR BAKERY

Thursday, May 15

Joan Collins', owner and baker for Wildflower Bakery, newest venture is a wonderful bakery in Sierra Madre that features fresh breads, tarts, pastries and other delicious treats. This program highlights baking with summer fruits, and will also feature some pastry cooking basics. Joan will make a fruit tart, a cherry clafouti, and a savory herb twist.

A SPRING CELEBRATION WITH JIMMY MARTINEZ

Thursday, May 29

Currently the chef at Caffé Citron in Monrovia, Jimmy has also worked at Spago's of Beverly Hills and is a graduate of Le Cordon Bleu Culinary Art Program in Pasadena. He will prepare dishes for a delicious spring dinner including a fabulous first course, an entrée and an irresistible dessert.

KIDS' COOKING CLASSES

Thursday, June 26 and
Thursday July 31

Topic and time to be
announced.



GARDEN SPROUTS: SATURDAY KIDS GARDENING CLUB!

1st Saturday of each
month through June 2003

Winter:
Jan. 4th, Feb. 1st, Mar. 1st
Spring:
Apr. 5th, May 3rd, June 7th
9:00am - 11:00am

Roots and Shoots Garden
at the Old Ranch Rd.
entrance to The
Arboretum (off Colorado
Blvd.)

Cost: Members \$25/quar-
ter, or \$10/Saturday

Non-Members \$30/quar-
ter, or \$12/Saturday

Hey, Kids! It's that time
again! Just for you!! (Kids
ages 5-8) Parents - This is
a "drop off" program.

Plant and tend our
garden, play nature
games, and learn crafts!
Plant flowers to take
home!...and much more!

FAMILY ADVENTURES

First Saturday of the
month BEGINNING
January 4, 2003

2:00 pm

Under the BIG Oak Tree
in front of Ayres Hall



Lisa Beach,
Adventure Guide

\$10 per family for
members; \$14 per family
for non-members

Pre-registration
preferred; walk-on
registration accepted
while supplies last.

In the event of rain, the
program is cancelled.
Each Saturday will have a
different theme relating
to nature or the
environment, and will
include a variety of activi-
ties such as a short story
or talk, a walk to a
special part of The
Arboretum, and a take-
home naturecraft activity.

FEB 1ST PAPER OLD AND NEW!

Learn how paper was
made from papyrus a
long time ago; see it
growing near the lake.
Then, learn to make your
own paper! Make your
own Valentine to send!

MARCH 1ST MORE TREES PLEASE!

Take a walking tree tour
around The Arboretum!
Learn tree folklore, take
time for storytime, and
make leaf magnets!

APRIL 5TH BAMBOO FOR YOU!

Hike through the bam-
boo forest at The
Arboretum! Learn how
bamboo grows! Make a
bamboo rain stick!

BOTANICAL WATERCOLOR WORKSHOP

Winter : 8 Mondays,
January 6 - February 24

Spring : 8 Mondays,
March 17 - May 5

9:30 - 11:30 am

Education Greenhouse
\$35 / \$42 non-members

Enjoy painting flowers
from The Arboretum with
watercolor enthusiasts.
This self-directed work-
shop (no official instruc-
tor) provides a support-
ive environment to con-
centrate on painting.

COMPULSIVE GARDENERS

8 Fridays, Jan. 10 - Feb. 28

8 Fridays, Mar. 28 - May 16

9:30 - Noon

Lecture Hall A

Self-directed by members
of the class

\$40 / \$48 non-members
per 8 week session

Calling all passionate and
committed gardeners.
The first hour will be a
"show and tell" facilitated
by a class member, a
general sharing of garden
experiences, questions,
book reviews and gar-
dening news. A presenta-
tion will follow. Winter
session topics include a
slide tour of East Coast
gardens, using unique
materials from the gar-
den, a tour and talk on
The Arboretum Herb
Garden, Designing Your

Dream Garden, Plant
Research Resources,
Irrigation Systems, Plant
Profiles and a field trip.

WATERCOLOR PLEIN AIR (OUTDOORS)

6 Saturdays,
Jan. 18 - Feb. 22

9 am - Noon

Meet at Lecture Hall C,
then the grounds

Jennifer Cunningham,
Instructor

\$180 / \$200 non-members

Paint the magnificent vis-
tas and historic treasures
of The Arboretum. The
instructor will lecture,
give demonstrations and
critique students' work.
Drawing, composition,
color, perspective, texture
and design are covered.

GARDENING 101: A WEEKEND SERIES

The 3rd Sunday of each
month (except Easter)

2 - 4 pm

Scott Daigre
& Catherine Downes,
formerly of Hortus

Winter Series 2003:

Jan. 19, Feb. 16, March 16

Spring Series 2003:

April 27 (instead of April
20), May 18, June 22

\$45 / \$52 non-members
for each series

\$18 / \$20 non-members
per single class

Learn the ABCs of great
gardening! We are
thrilled to have Scott

and Catherine at The
Arboretum. Even great
gardeners sometimes
forget the basics - or
need a quick brushup.
Basic gardening princi-
ples will be emphasized.
A great way to spend
Sunday afternoon!

BOTANICAL WATER- COLOR TECHNIQUES

6 Saturdays, February 1,
15, March 1, 15, 29, April 5

9:30 am - 4:30 pm

BOTANICAL DRAWING AND ILLUSTRATION

6 Sundays: Feb. 2, 16,
Mar. 2, 16, 30, April 6

9:30 am - 4:30 pm

Olga Eysymontt,
Instructor

Contact: Otis College of
Art and Design Evening
College (310) 665-6850
or (800) 527-6847 for
information/registration.

IKEBANA

Winter:

8 Fridays,
Jan. 10 - Feb. 28

Spring:

8 Fridays,
March 28 - May 16

9:30 - 11:30 am
Lecture Hall B

Reiko Kawamura,
Instructor

\$65 / \$80 non-members
per 8-week session

\$24 materials fee payable
to the instructor

Learn Japanese cultural
traditions with Reiko

INFORMATION: Call (626) 821-4623 or (626) 821-4624 for informa-
tion or to register for a class. Please fax to (626) 821-4642 or mail your
registration form with your payment to: Los Angeles Arboretum
Foundation, 301 N. Baldwin Ave., Arcadia, CA 91007-2697, Att. Jill Berry

Reservations are required for most classes, programs and events.
Registration on the day of the program is allowed if space is available.

**NO CONFIRMATION IS SENT. ALL FEES ARE NON-REFUNDABLE
AND NON-TRANSFERRABLE.** However, classes may be cancelled
due to low registration. Cancelled classes are fully refunded.

Special assistance is available for people with disabilities. Call the
Program Manager at (626) 821-4624 at least one week prior to the
program for specific requests.

REGISTRATION ONCE CLASS PER FORM PLEASE

Class/Event

Please make checks payable to: Los Angeles Arboretum Foundation (LAAF)

Signature required for all credit card charges

Discover/MC/Visa/Amex #

Name

Address

City

State

Zip

Telephone ()

LAAF Member

No. of people

Total

\$

Non-member

No. of people

Total

\$

Exp.

Member No.

(if applicable)

BALDWIN BONANZA FESTIVAL OF PLANTS 2003

ARBORETUM PLANT OFFERINGS

The Baldwin Bonanza 2003 Festival of Plants Sale will be open to members only on Saturday, May 3 from 8:00-9:00 am and will be open to the public on Saturday, May 3 and Sunday, May 4 from 9:00am to 4:30pm each day.

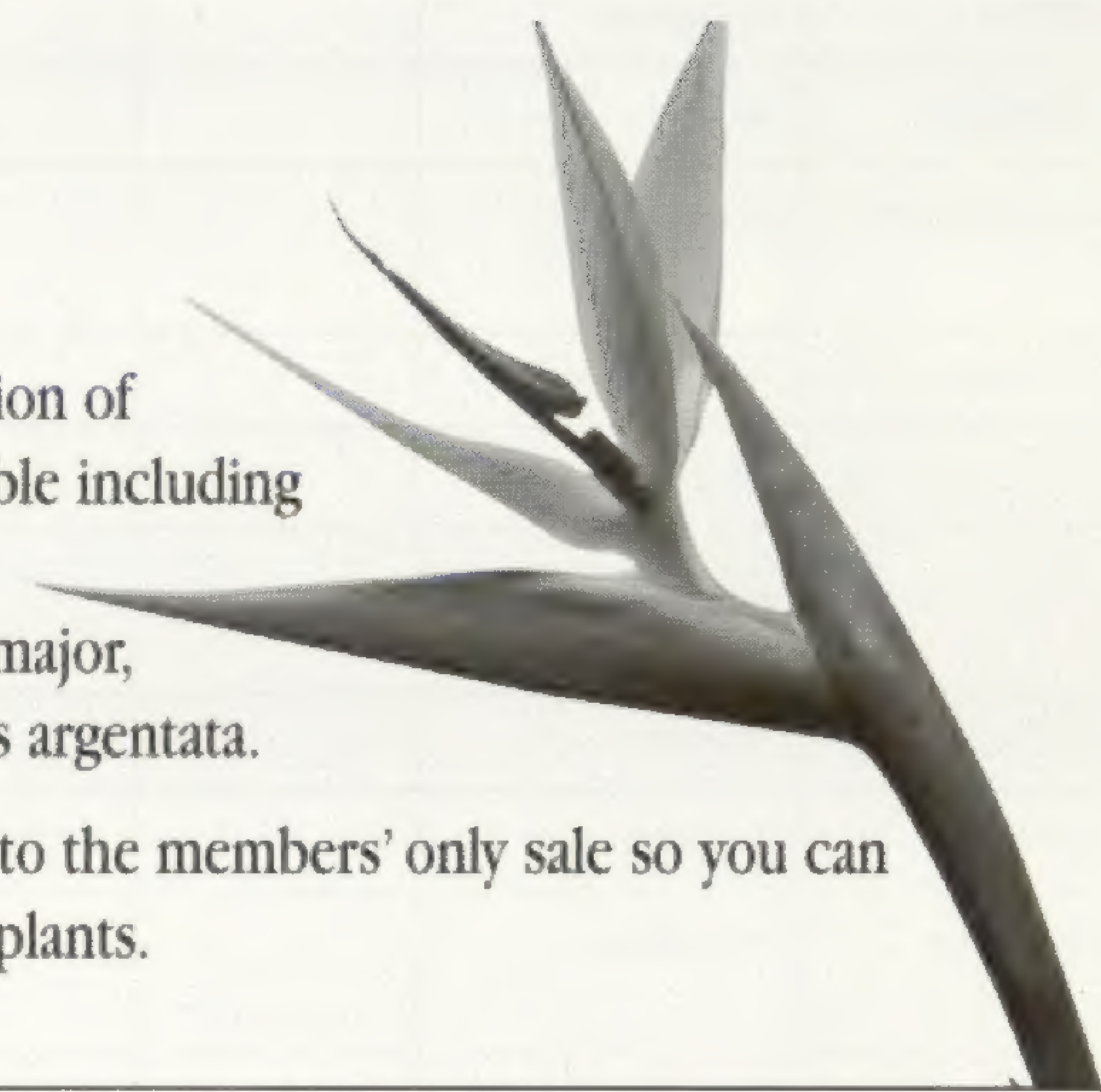
Thousands of plants from The Arboretum collection will be available. Among the unique treasures are Clausena lansium, Combretum fruticosum, Graptophyllum excelsum, and Leucophyllum 'Zaragoza'.

Orchids, propagated from The Arboretum's extensive collection of species orchids, will also be available including Pholidota imbricata, Cymbidium aloifolium, Eria javanica, Isochilus major, Dendrochilum uncatum, and Stelligia argentata.

A complete listing follows. Come to the members' only sale so you can be sure to get your first choice in plants.

Key to description codes: (C) Can be used in Container, (W) Water conserving/Drought tolerant, (S) Scented flowers or foliage, (A) Australian Native, (B) Bird, bee or butterfly attractive, (E) Edible fruit, (U) Useful medicinally or culinary

Genus	Species	Variety	Cultivar	Common Name	Description
Abutilon	megapotamicum			Brazilian Bell-Flower	Weeping Shrub 3'x3', dark green maple-shaped leaves, red and yellow lantern flowers nearly year round (B/C)
Acacia	seiberiana		Woodii	Paperbarkthorn	South African plains tree to 30' x 50'wide, broad, low spreading crown, corky bark, creamy white fragrant powderpuff flowers in spring (W/B/S)
Aesculus	californica			California Buckeye	California native, deciduous tree to 15' x 15', large deep green leaves spring-fall, spikes of cream flowers in spring (W/B)
Agave	tequilana		Sunrise	Variegated Blue Maguey	Large succulent to 7' wide, blue tinted leaves yellow edges, the variegated form of the official tequila maguey (W/C)
Aloysia	citriodora			Lemon Verbena	Fragrant shrub to 5', leaves strongly lemon scented, dainty lavender flowers summer-fall, nice near a walkway, makes excellent tea (W/C/U)
Alyogyne	cuneiformis			White Hibiscus	Glossy evergreen shrub to 10', large white hibiscus-like flowers with dark center in summer (W/A/C)
Amaryllis	belladonna			Belladonna Lily	Bulb, will naturalize and spread in the CA garden, leaves die back to ground before the late summer display of showy pink flowers
Anisacanthus	thurberi			Desert Honeysuckle	American desert native, shrub to 5', long, tubular, orange flowers bloom all summer (W/B)
Annona	cherimola			Cherimoya	Deciduous shrub/tree to 15', velvety leaves drop in late spring, pick knobby fruit when yellowish green, creamy custardlike fruit (E)
Aristolochia	sp			Dutchman's Pipe	Vine to 15', vigorous grower, 4" red/brown flowers shaped like a pipe in summer-fall, grown for unusual flowers
Beaumontia	jerdoniana			Herald's Trumpet	Vine to 30', large dark green leaves are evergreen, flowers on mature wood in spring, flowers are 10" white, trumpets
Caesalpinia	gilliesii			Yellow Bird of Paradise Shrub	Evergreen to deciduous shrub to 10', delicate leaves accent the stem structure, covered with 3" flowers, yellow petals & red stamens (W/B)
Caesalpinia	pulcherrima			Red Bird of Paradise Shrub	Deciduous shrub to 10', delicate leaves accent the dark stems, sprays of red-orange flowers with red stamens in summer (W/B)
Camptotheca	acuminata			Happy Tree	Cold weather deciduous tree to 40', graceful columnar habit, large leaves on tiers of branches, Chinese medicinal plant (U)
Cassia	brewsteri			Cigar Cassia	Tree to 20' x 25'wide, 6' long drooping racemes of yellow/orange and red/brown flowers in summer (W/A)
Castanospermum	australe			Morton Bay Chestnut	Slow growing evergreen tree to 50', dark green, shiny leaves, flowers under the canopy are bright red and yellow in summer, roasted seeds are edible (B/E)
Chionanthus	retusus			Chinese Fringe Tree	Deciduous tree to 20', spectacular bloom of white flowers in spring followed by blue berries in fall
Choisya	ternata			Mexican Orange	Compact, rounded bush to 6', glossy deep green leaves, small white, fragrant flowers in spring (W/S/B)
Clausena	lansium			Wampi	Tropical fruit tree to 20', flowers in spring, bunches of grape sized, edible yellow fruits in summer-fall (E)
Clerodendrum	myricoides		Ugandense	Glorybower	Evergreen shrub to 10', glossy dark green leaves, keeled flower is dark blue above and pale blue lower petals, flowers in summer ©
Coffea	arabica			Coffee Tree	Evergreen shrub to 15', even spaced branches form tiers of shiny green fragrant leaves, white flowers in spring, purple to red fruits in summer (S/C/E)
Combretum	coccineum			Lemur Creeper	Evergreen vine to 30', masses of bottlebrush type red flowers bloom for several weeks in summer followed by winged dry fruits (B)
Combretum	fruticosum			Chamaeleon Vine	Evergreen vine to 30', masses of bottlebrush type flowers turn from chateuse to bright orange, flowers several weeks in August (B)
Coprosma			Coppershine	Coppershine Coprosma	Rounded shrub to 6', covered with small, leathery, bright copper colored leaves, copper color brightens in winter (W/)
Dahlstedtia	pinnata				Evergreen tree to 20', red tubular flowers under the canopy in summer, somewhat frost tender
Dicliptera	suberecta				Herbaceous perennial to 3', felted white leaves and stems, tubular orange flowers in summer (W/B)
Duranta	erecta			Golden Dewdrop	Evergreen shrub to 15', drooping branches end in sprays of violet blue flowers spring-fall, long lasting orange berries fall-winter (B/C)
Eremophila	glabra			Common Emu Bush	Spreading shrub to 5', gray green leaves, solitary yellow-orange tubular flowers in spring-fall (W/B)
Eriocephalus	africanus			African Rosemary	Compact evergreen shrub to 4'x8' wide, gray foliage, white flowers in fall (W/A/B)
Erythrina	herbacea			Cardinal Spear	Deciduous shrub to 5', heart shaped leaves, bright red tubular flowers crown the growing tip of the stems (B)
Erythrina	latissima			Large-leaf Coral Tree	Tree to 30', can be deciduous in colder climates, largest leaves of the coral trees, bright red tubular flowers in spring (W)
Grabowskia	duplicata				Large spiny shrub, blue-green leaves gives the plant a blue gray hue, violet flowers in summer (W/A)
Graptophyllum	excelsum			Scarlet Fuschia	Erect evergreen shrub, red flowers over a long season (A/B)



Genus	Species	Variety	Cultivar	Common Name	Description
Hakea	leucoptera			Pincushion Tree	Evergreen shrub to 6', open habit, gray-green needle-like leaves (W/A)
Harpullia	arborea				Evergreen tree to 35', large glossy green leaves, showy orange fruits open to reveal glossy black seeds in fall & winter
Homalanthus	populifolius			Queensland Poplar	Evergreen tree to 15', large dark green leaves with coppery veins/petioles, lowest leaves are red-orange all year, milky juice used as black dye for rattan (A/U)
Homalocladium	platycladium			Ribbon Plant	Novelty shrub to 6', dark green flat stems give this plant its name, flowers inconspicuous, tiny red fruits in fall (C/W)
Hymenosporum	flavum			Sweetshade	Evergreen tree to 40', upright structure, large fragrant yellow flowers in summer (A/S)
Ilex	paraguariensis			Yerba Mate	Evergreen shrub to 20', prune to keep small, dark green leaves on straight upright stems, red-brown fruit, source of Argentina's naturally caffeinated drink mate (U)
Iochroma	cyaneum			Violet Tubeflower	Evergreen shrub to 8', large dark green leaves, large clusters of deep purple, tubular flowers in summer (B)
Jasminum	sambac		Grand Duke	Double white Arabian Jasmine	Evergreen shrub to 5', added to tea to make jasmine tea, very fragrant, white, double flowers used to make perfume (C/S/U)
Juanulloa	aurantiaca				Perennial shrub to 5', drooping branches bear terminal racemes of long tubular orange flowers in spring-fall, epiphytic in Peru, grow in moist well-drained garden (C)
Juniperus	chinensis		Mint Julep	Juniper	Evergreen shrub to 8', vase shaped growth habit, mint green foliage
Justicia	aurea				Herbaceous perennial to 6', large light green leaves, terminal spikes of yellow flowers in summer-fall
Justicia	leonardii				Perennial shrub to 3', long velvety leaves, tubular orange flowers spring-fall (W/B)
Justicia	sericea		Inca Queen		Exotic shrub to 3', dark green foliage, red tubular solitary flowers summer-fall
Leucophyllum			Zaragoza	Chihuahuan Sage	Evergreen shrub to 7', round dense growth habit, white felted leaves show off the display of deep purple flowers in summer-fall (W)
Leucophyllum	laevigatum			Chihuahuan Sage	Evergreen shrub to 5', round dense growth habit, display of deep purple flowers in summer-fall (W)
Lonicera	hildebrandtiana			Giant Burmese Honeysuckle	Evergreen vine, fast growing, large plant with large dark green leaves, 7" tubular yellow flowers in summer are fragrant (S/B)
Maireana	sedifolia			Pearly Bluebush	Evergreen shrub to 3', small white succulent leaves on arching branches (W/A)
Melaleuca	incana		Prostrata	Dwarf Woolly Honey Myrtle	Evergreen shrub to 3' x 6' wide, new growth felted white, leaves small & narrow, mounding growth habit
Melaleuca	linariifolia			Snow-In-Summer	Evergreen tree to 30', arching branches make for a nice canopy, flaking white bark lends to its common name, small white flowers in summer (W/A)
Montanoa	grandiflora			Daisy-flower Tree	Evergreen shrub to 12', large leaves, many yellow centered, white daisy like flowers in fall, flowers smell of cookies (S/B)
Myoporum	parvifolium		Narrow Leaf	Creeping Boobialla	Ground cover 3" tall to 9' wide, dark green thin leaves make for a soft ground cover in a no traffic area, covered in white flowers in summer (W/A)
Nashia	inaguensis			Moujean Tea	Evergreen shrub to 3', small, shiny, dark green leaves, used in tea (U)
Odontonema	callistachys				Evergreen perennial to 6', medium green leaves, terminal spikes of pink-lavender 2-lipped flowers in winter-spring
Peltophorum	africanum			Yellow African Flamboyant	Shade tree to 30' x 60' wide, leaves finely divided, showy yellow flowers in summer
Peltophorum	pterocarpum			Yellow Flame Tree	Shade tree to 80' x 30', tall habit forms a nice canopy near the top of the tall trunk, very fragrant yellow flowers in summer
Podocarpus	macrophyllus		Select Spreader	Dwarf Yew Pine	Evergreen spreading shrub to 3' x 5'wide, dark green narrow leaves grow spirally from stems giving a brush-like appearance, slow growing (C)
Poliomnitha	bustamante			Mexican Oregano	Herbaceous perennial to 3', fragrant leaves smell like oregano, spikes of long, tubular light purple flowers in summer (W/S/B)
Prostanthera	rotundifolia			Round Leafed Mint Bush	Evergreen shrub to 8', dense, round growth habit, leaves mint scented, clusters of purple flowers spring (W/A/S)
Quercus	agrifolia			Coast Live Oak	Evergreen spreading tree to 20-70', dark green holly-like leaves, native to southern California, little or no summer water (W/E/U)
Quercus	engelmannii			Engelmann Oak	Evergreen spreading tree to 60', smooth, light green leaves, native to southern California, little or no summer water (W/E/U)
Ruellia	macrantha			Christmas Pride	Perennial shrub to 4', multistemmed with large bell-shaped, purple rose flowers in summer
Senna	wislizenii				Rounded shrub to 6', small round light green leaves, yellow globe shaped flowers in summer-fall (W)
Stevia	rebaudiana			Sweet Herb of Paraguay	Herbaceous perennial to 3' x 3', small leaves are very sweet, can be used as a fat free sweetener (S/U)
Streptosolen	jamesonii			Marmelade Bush	Evergreen vining shrub to 4', shiny, dark green leaves, large display of orange flowers nearly year-round (W/B)
Syzygium	paniculatum		Pearly Showers	Variegated Australian Brush Cherry	Evergreen shrub to small tree to 30', variegated leaves of green, red and yellow, showy purple fruits in fall (A/E)
Tagetes	lucida			Sweet Marigold	Herbaceous perennial to 2', scented dark green leaves smell of tarragon, small yellow flowers in fall (S/U)
Xanthorrhoea	quadrangulata			Australian Grass Tree	Evergreen tree-like perennial to 12', slow growing, dense tufts of grass-like leaves out of the top of a woody trunk (W)

TROPICALS & HOUSE PLANTS

Brighamia	insignis				Rare Hawaiian plant, waxy leaves atop a solitary trunk, large tubular yellow flowers have a light scent (S)
Clerodendron	thompsonii				Evergreen shrubby vine, cold sensitive, flowers on end of branches are bell-shaped red-pink and white
Cordyline	sp.				Solitary trunk with spade shaped leaves, dark maroon leaves have a bright pink margin
Ludisia	discolor			Jewel Orchid	Sprawling ornamental orchid, dark leaves with red veination, 4" spike of small white orchid flowers
Philodendron	glanduliferum				Evergreen tropical vine, 8" rounded leaves
Philodendron	gloriosum				Sprawling thick stemmed tropical evergreen, leaves with white veins make for a very ornamental tropical plant
Philodendron	rugosum Pigskin		Pigskin	Philodendron	Sprawling tropical evergreen, large heart-shaped leaves that have an unusual leather-like texture
Plumbago	indica				Sprawling perennial shrub, mounding to 2', bright coral flowers in sprays at ends of slender tubular branches
Zamioculcas	zamiifolia				Curious looking tropical plant to 2', evergreen perennial forming tubers at the base with erect, glossy divided leaves

THE BOTANICAL ARTISTS GUILD
OF SOUTHERN CALIFORNIA
Presents a Botanical Art Exhibit



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SPRING BOUQUET 2003

THE GLORY OF BOTANICAL ART

Saturday, March 29–Sunday April 6, 2003

Gallery Hours: Daily, 9:30am–4:30pm

Lecture/Demonstrations

Saturday, April 5, 11:30am–1:30pm

The Arboretum of Los Angeles County—Peacock Cafe Annex
301 North Baldwin Avenue, Arcadia, California 91007 626-821-4623

Kawamura and practice Moribana, Heika and landscape arrangement techniques. Individual instruction is given. Bring a 10"-12" shallow container, clippers and a needle holder (frog) to the first class.

BOTANICAL ILLUSTRATION I: BASIC DRAWING IN GRAPHITE

4 Wednesdays,
Feb. 19 - March 12

9 am - Noon

Lecture Hall B

Olga Eysymontt,
Instructor

\$120 members,
\$140 non-members

Learn to observe and to render form accurately. This class will help both beginner and experienced students, wishing to fine-tune their drawing skills.

WATERCOLOR FOR BOTANICAL ILLUSTRATION

Session I:
6 Thursdays
Feb. 20 - March 27

Session II:
6 Thursdays
April 3 - May 8

9 am - Noon

Lecture Hall B

Olga Eysymontt,
Instructor

\$180 members,
\$200 non-members

This intermediate-advanced course emphasizes more complicated subject matter, plant structure and composition. It builds upon the exercises done in Introduction to Watercolor for Botanical Illustration and focuses on form, light and color. Prerequisite: Introduction to Watercolor or Botanical Illustration I: Drawing in Graphite or by permission of instructor.



CREATING A BACKYARD HABITAT: BIRDS, BEES & OTHER CRITTERS

Monday, March 10
10 am - Noon

Lecture Hall B

Marc Hall, California
Certified Nurseryman,
Instructor

\$15 / \$18 non-member

Learn about life cycles and how to provide a sanctuary for our valuable pollinators and fauna. Attract wildlife such as birds, butterflies, small mammals and other creatures to your garden.

This could mean something as simple as planting a few host plants for butterflies or as elaborate as creating a place that provides food, water and winter refuge for all kinds of wildlife.

BOTANICAL ILLUSTRATION II: DRAWING PLANTS

6 Wednesdays,
March 19 - April 23

9 am - Noon

Lecture Hall B

Olga Eysymontt,
Instructor

\$180 members,
\$200 non-members

A continuation of Botanical Illustration I: Basic Drawing in Graphite, this class focuses on the structure of plant and leaf forms. Pencil techniques are demonstrated.

GARDENING & COOKING IN A MEDITERRANEAN CLIMATE

Tuesdays,
March 11 - April 15

10 am - Noon

Ayres Hall

Jill Vig and Steven
Mary, Instructors

\$95 members /
\$115 non-members

Sponsored in part by Whole Foods Market in Hastings Ranch. We not only enjoy the rare beauty of a Mediterranean climate, but also the cuisine based largely on fruits, vegetables and nuts that thrive here. Instructors Jill Vig and Steven Mary look at a whole new palette of plants. Jill will discuss the history and culture of a particular plant and Chef Steven Mary from Pasadena's Ritz-Carlton will demonstrate his unique recipes, and the class will sample his dishes for a light lunch.

THE GREAT TOMATO SALE & TALK

Tuesday, March 25

10 - 11:30 am

Lecture Hall A

Steve Goto, Instructor

Free to Members / Free to Non-Members with Arboretum Admission

Back by popular demand! Join us for a lecture, slide show and Steve Goto's Top 25 Tomato Picks for 2003! Learn to plant and harvest the best tomatoes for our area. Then, attend THE GREAT TOMATO SALE. Don't miss the large selection of heirloom tomato plants from Goto Nursery, a tomato supplier to many nurseries throughout Southern California.

ETHNOBOTANICAL LECTURE SERIES:

Plants, Culture, and Religion in the Golden Land of Burma

Wednesday, April 2
7:30 pm

Ayres Hall

\$8 students / \$10 members / \$12 non-members

W. John Kress, Research Scientist and Curator, Head of Botany, United States National Herbarium, National Museum of Natural History, Smithsonian Institution

COLOR PENCIL FOR BOTANICAL ILLUSTRATION: TECHNIQUE AND APPLICATION

6 Wednesdays
April 30 - June 4

9 am - Noon

Lecture Hall B

Olga Eysymontt,
Instructor

\$180 members, \$200 non-members

Color pencil combines the sensuality of color with the impulsiveness of drawing. Color layering and understanding how colors interact with each other is emphasized.

GARDENING BASICS

6 Wednesdays
March 5 - April 9

10 am - Noon

Education Greenhouse

Instructor: Lisa M. Beach

\$65 / \$80 non-members

Basic Theme Gardens:
3/5 Container Gardens
3/12 Vegetable Gardens
3/19 Fragrance Gardens
3/26 Drought Tolerant Gardens
4/2 Butterfly & Hummingbird Gardens
4/9 Edible Flower Gardens

Learn the essentials of planting specialty gardens.

THE ABC'S OF PLANTS: TAUGHT IN KOREAN

Saturday, April 19

2 - 4 pm

Lecture Hall A

Jae Soon Song, Instructor

\$15 members / \$18 non-members

Learn how a garden grows. View and identify plants in their environment. Learn basic tree structure, function, photosynthesis, and how trees relate to each other. This is the first in a series of classes taught in Korean about plant botany and planning and tending a successful garden.

GARDEN PHOTOGRAPHY SERIES

Wednesdays, April 23 & 30
7 - 9 pm Lecture Hall B

Sunday, April 27
8 - 11 am

in the Garden

Deidra Walpole,
Instructor

\$75 members / \$85 non-members

Join garden and landscape photographer Deidra Walpole in a garden photo adventure. Learn to capture on film the beauty of flowers and gardens. The first session will cover garden photography basics including equipment, film, natural light, designing a garden photograph, and more. Next, spend a spring morning in The Arboretum taking pictures, which will be discussed during the final class slide show. Visit her website at: www.deidrawalpole.com.

SAVE THE DATE:

MAKE BEAUTIFUL BOOKS BY HAND

Saturday, May 10

Wendy Poma,
Instructor

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
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Free Arboretum Admission: Third Tuesday of each month.

Bird Watching: First Sunday of each month, meet at the entrance (rotunda) at 8 am for a guided walk to identify birds in The Arboretum. Free with admission.

Santa Anita Depot: Open Tues. and Weds, 10 am-4 pm; Sundays, 1-4 pm. Free with admission.

Tai Chi: Every Tuesday and Friday from 7:30 - 8:30 am; meet on the lawn near Balwin Avenue entrance. Free for members.

February

1 Garden Sprouts
Otis College Botanical Watercolor
Family Adventures
Plein Air

1 Otis College Botanical Drawing	3 Watercolor Workshop Hort. Science Trees & Shrubs	4 Tai Chi	5 Gardening Basics Advanced Color Pencil	6 Thursday Morning Seminars Introduction to Watercolor	7 Compulsive Gardeners Ikebana Tai Chi	8 Plein Air
9	10 Watercolor Workshop Hort. Science Trees & Shrubs	11 Tai Chi	12 Gardening Basics Advanced Color Pencil	13 Thursday Morning Seminars Introduction to Watercolor	14 Compulsive Gardeners Ikebana Tai Chi	15 Otis College Botanical Watercolor Plein Air
16 Mushroom Fair Gardening 101 Otis College Botanical Drawing	17 Watercolor Workshop Hort. Science Trees & Shrubs	18 Tai Chi	19 Gardening Basics Botanical Illustration-Basic Drawing	20 Fresh! Thursday Morning Seminars Watercolor for Bot. Illustration Session 1	21 Compulsive Gardeners Ikebana Tai Chi	22 Plein Air
23	24 Watercolor Workshop Hort. Science Trees & Shrubs	25 Tai Chi	26 Gardening Basics Botanical Illustration-Basic Drawing	27 Thursday Morning Seminars Watercolor for Bot. Illustration Session 1	28 Compulsive Gardeners Ikebana Tai Chi	1 Gem & Mineral Show Garden Sprouts Family Adventures Otis Bot. Watercolor
2 Gem & Mineral Show Otis College Botanical Drawing	3 Hort. Science Trees & Shrubs	4 Tai Chi	5 Botanical Illustration-Basic Drawing Gardening Basics	6 Fresh! Watercolor for Bot. Illustration Session 1	7 Tai Chi	8 Environmental Education Fair
9	10 Creating a Backyard Habitat Hort. Science Trees & Shrubs	11 Gardening & Cooking in a Mediterranean Climate Tai Chi	12 Botanical Illustration-Basic Drawing Gardening Basics	13 Watercolor for Bot. Illustration Session 1	14 Tai Chi	15 Arbor Day Tree Give-Away Otis College Botanical Watercolor
16 Gardening 101 Arbor Day Tree Give-Away Otis College Botanical Drawing	17 Watercolor Workshop Hort. Science Trees & Shrubs	18 Gardening & Cooking in a Mediterranean Climate Tai Chi	19 Drawing Plants Gardening Basics	20 Watercolor for Bot. Illustration Session 1	21 Tai Chi	22 Orchid Show Fresh!
23 Orchid Show	24 Watercolor Workshop Hort. Science Trees & Shrubs	25 Gardening & Cooking in a Mediterranean Climate The Great Tomato Sale Tai Chi	26 Drawing Plants Gardening Basics	27 Thursday Morning Seminars Watercolor for Bot. Illustration Session 1	28 Compulsive Gardeners Ikebana Tai Chi	29 Ikebana Show Botanical Art Exhibition Otis Bot. Watercolor
30 Ikebana Show Botanical Art Exhibition Otis Bot. Watercolor	31 Botanical Art Exhibit. Watercolor Workshop Hort. Science Trees & Shrubs	1 Botanical Art Exhibition Gardening & Cooking in a Mediterranean Climate Tai Chi	2 Ethnobotanical Lecture Botanical Art Exhibit Drawing Plants Gardening Basics	3 Fresh! Botanical Art Exhibition Thurs. Morning Seminars Watercolor for Bot. Illustration Session 2	4 Botanical Art Exhibition Compulsive Gardeners Ikebana Tai Chi	5 Iris Show Botanical Art Exhibit Otis Bot. Watercolor Garden Sprouts Family Adventures Korean Garden Festival
6 Iris Show Botanical Art Exhibition Otis College Botanical Drawing	7 Watercolor Workshop Hort. Science Trees & Shrubs	8 Gardening & Cooking in a Mediterranean Climate Tai Chi	9 Drawing Plants Gardening Basics	10 Thursday Morning Seminars Watercolor for Bot. Illustration Session 2	11 Compulsive Gardeners Ikebana Tai Chi	12
13	14 Watercolor Workshop Hort. Science Trees & Shrubs	15 Gardening & Cooking in a Mediterranean Climate Tai Chi	16 Drawing Plants	17 Thursday Morning Seminars Watercolor for Bot. Illustration Session 2	18 Compulsive Gardeners Ikebana Tai Chi	19 Amaryllis & Bulb Show The ABC's of Plants-Taught in Korean
20 Amaryllis & Bulb Show Easter	21 Watercolor Workshop Hort. Science Trees & Shrubs	22 Tai Chi	23 Drawing Plants Garden Photography Series	24 Thursday Morning Seminars Watercolor for Bot. Illustration Session 2	25 Compulsive Gardeners Ikebana Tai Chi	26 Rose Show Flower Arranging Show
27 Rose Show Garden Photo Series Gardening 101 Flower Arranging Show	28 Watercolor Workshop Hort. Science Trees & Shrubs	29 Tai Chi	30 Color Pencil Garden Photography Series			

THE ALLSPICE TREE: A FLAVORFUL MEMBER OF THE ARBORETUM COLLECTION

On walking tours of The Arboretum, I like to engage the group by breaking off a small piece of the leaf of a small tree growing in our tropical greenhouse.

I crush it and pass it around and ask everyone "What does this smell like to you?" The enticing aroma is hard to identify. Some say cloves, others nutmeg, and some even think of cinnamon. In fact, these leaves have oils with hints of each of the above spices plus even the smell of juniper berries.

These aromatic leaves come from the Allspice tree (*Pimenta dioica*), the source of the famous allspice berries as well as the aromatic leaves and wood. This tree is a member of the Myrtle family (*Myrtaceae*) and can be found growing wild from eastern and southeastern Mexico through Central America and the Caribbean. It is a small evergreen tree to 30 feet tall with oblong, leathery, aromatic leaves with glandular dots on its undersides.

The fruit is harvested while immature when it is considered most strongly flavored; the whole dried ground fruit constitutes the allspice powder of commerce. The pea-sized dried fruits are used to flavor pickles, sauces, ketchup, sausages, soups, ice cream, etc. The leaves may be used as a condiment or steeped into tea.

Jamaica is the main exporter and produces the highest quality berries. In Jamaica, the use of allspice as a seasoning has reached its highest level of development. Allspice is a primary ingredient in Jamaican jerk foods.

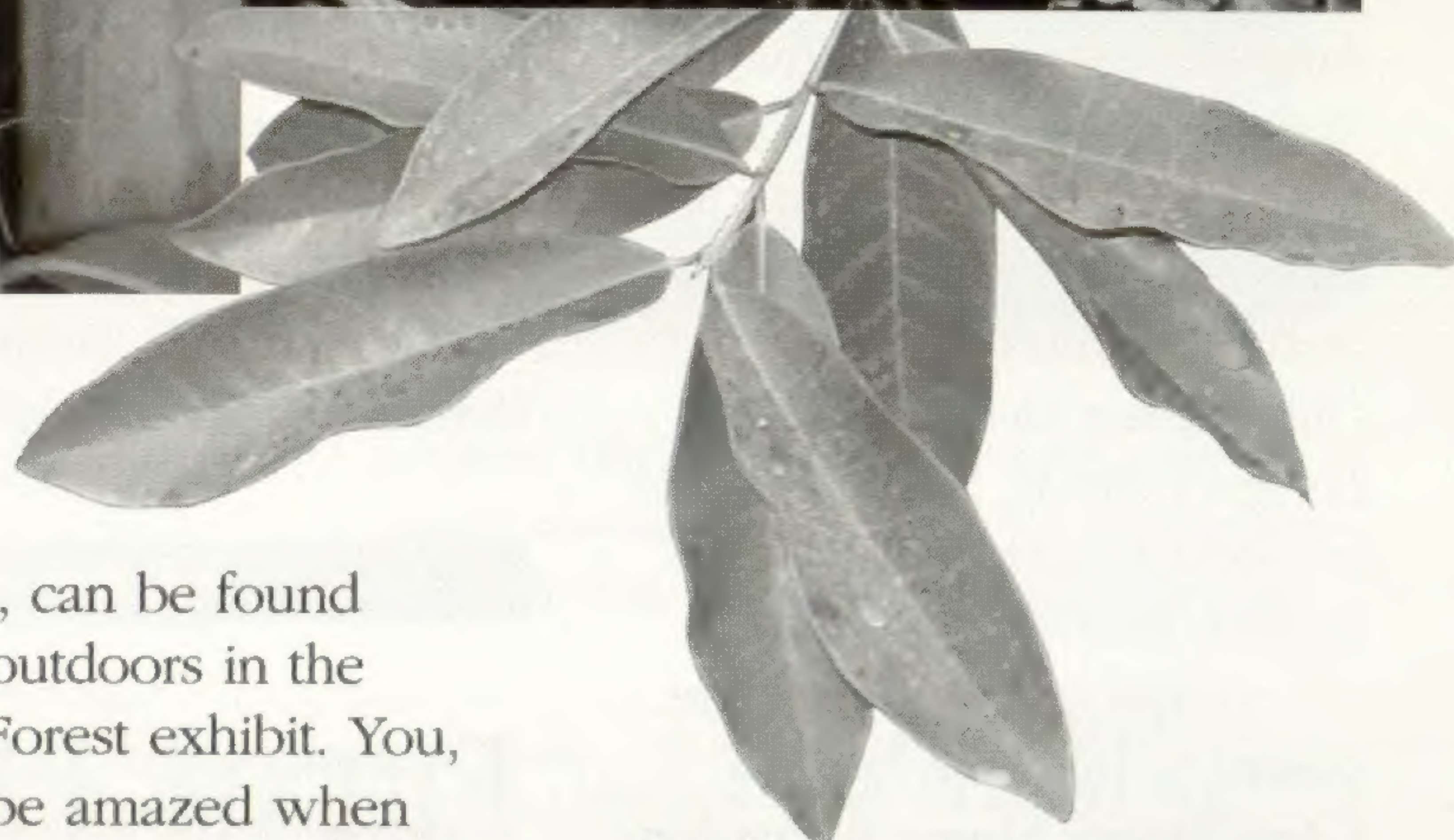
Meats marinated in a mixture of allspice, chili powder, garlic and onion, vinegar or lime juice, and other seasonings are barbecued or grilled, often over allspice wood. Also, soaking allspice berries in rum results in a traditional Jamaican liqueur called "Pimento dram."

The Arawak Indians of the Caribbean used allspice to preserve meat and fish. It is said that their term for such cured meats 'boucan' gave rise to the term 'buccaneer' referring to the pirates who used the island of Jamaica as a base for raiding shipping. Pirates and other sailors adopted this tradition to help preserve meat and fish on long voyages.

Besides its value in cooking, allspice berries have been used in traditional healing in the Caribbean. Allspice is said to promote digestion and alleviate muscle pain. The main oil, eugenol, is effective in relieving toothaches. Jamaicans drink hot allspice tea for colds, menstrual cramps and upset stomach.

Allspice has been successfully grown outdoors in Southern California, although the berries are only produced when both male and female trees are flowering in proximity.

Besides the Tropical Greenhouse, another healthy specimen, a gift from David



Oberman, can be found growing outdoors in the Tropical Forest exhibit. You, too, will be amazed when you encounter this most useful tree, one of the amazing array of ethnobotanically important plants in The Arboretum's collections.

*Contributed by Jim Bauml
Senior Biologist*

WEDNESDAY, APRIL 2

ETHNOBOTANICAL LECTURE SERIES: PLANTS, CULTURE, AND RELIGION IN THE GOLDEN LAND OF BURMA

W. John Kress, Research Scientist and Curator, Head of Botany, United States National Herbarium, National Museum of Natural History, Smithsonian Institution will present a lecture on Burmese plants, culture and religion on Wednesday, April 2, at 7:30 pm in Ayres Hall. The cost for this fascinating lecture is \$8 students / \$10 members / \$12 non-members.



BRITISH GARDENING EXPERT CHRISTOPHER LLOYD TO VISIT THE ARBORETUM

*Rare North American tour features renowned
English author and garden designer*

Known for his amazing approach to garden design, color theory and the use of plants and architecture in the landscape, British gardening expert Christopher Lloyd has charmed horticultural fans around the globe with his books and appearances on BBC-Television.

To the delight of Los Angeles gardening enthusiasts, The Arboretum will host Lloyd for a lecture on Thursday, May 22, from 3:00 to 6:00 pm in Ayres Hall. Joining Christopher Lloyd will be Fergus Garrett, head gardener at Great Dixter and a well-known lecturer and author.

Christopher Lloyd is the genius behind the famous Great Dixter Home & Gardens in England, one of the most experimental, exciting and constantly changing gardens of our time. He has been awarded the Royal Horticultural Society's Victoria Medal of Honor and is the celebrated author of countless garden design books, including *Color for Adventurous Gardeners*, *Christopher Lloyd's Gardening Year* and *The Well-Tempered Garden*, among others. North American fans have read his articles in *Horticulture*, and now in *The Gardener*.

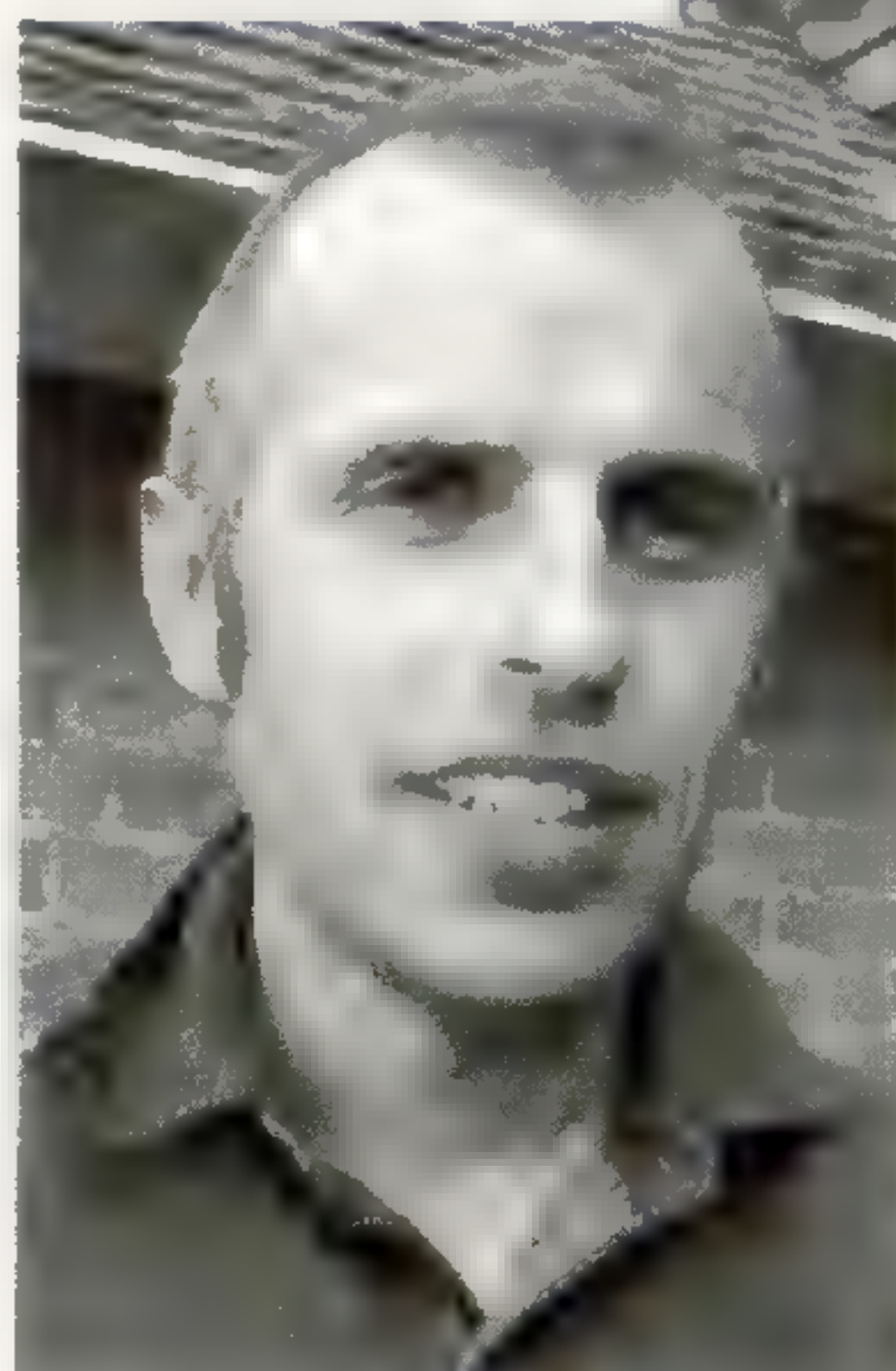
Fergus Garrett received a degree in horticulture at Wye College. He worked at The Beth Chatto Nursery and has designed and run gardens in France and Switzerland. His most recent design is a 290-foot mixed border on the grounds of White Flower Farm in Connecticut. Garrett joined

the staff of Great Dixter in 1993. He contributes articles to *Gardens Illustrated*, *The Gardener* and *Hortus*. Garrett is especially interested in the history and preservation of the bulbs and plants of Turkey, where he spent much of his life.

In addition to the lecture at The Arboretum, The Christopher Lloyd-Fergus Garrett North American Lecture Tour includes Vancouver, B.C., Seattle, Portland, Denver and Chicago.



Christopher Lloyd



Fergus Garrett

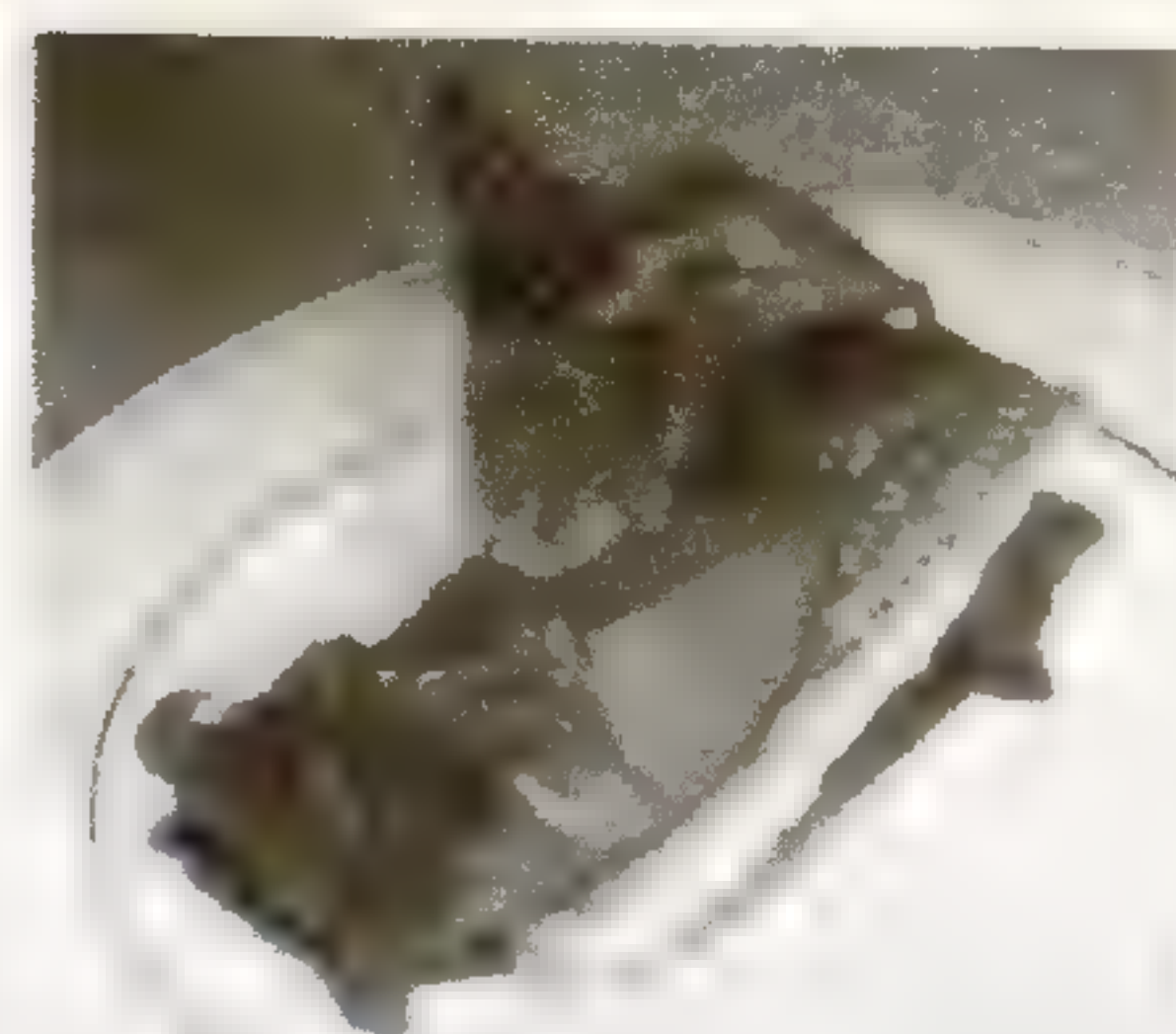
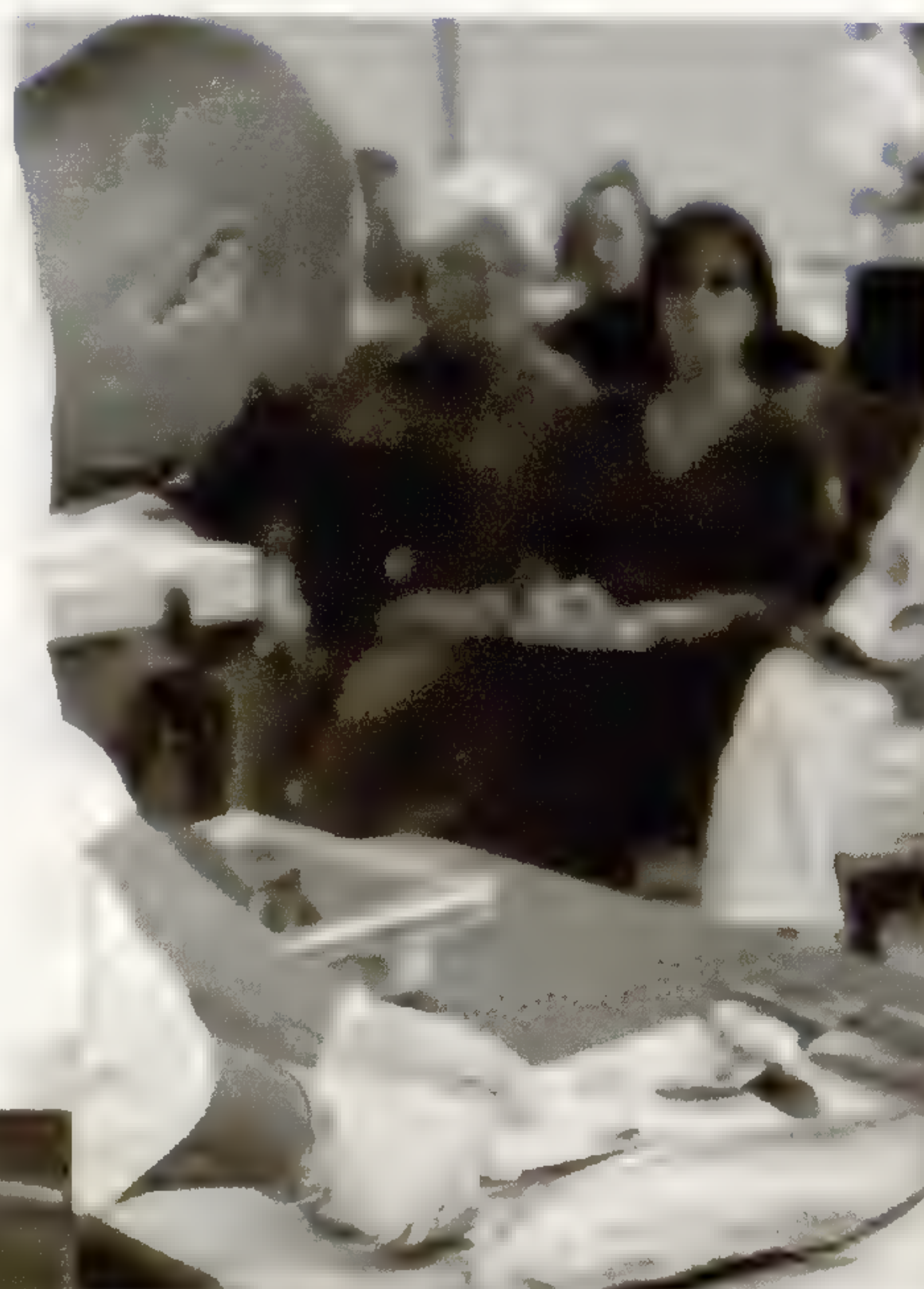
Tickets for the lecture are \$25 for members and \$35 for non-members, and can be purchased by calling 626-821-4624 or 821-4623. Seating is limited.

FRESH COOKING SERIES

FRESH HAPPENINGS

These photos were taken at the Fresh Cooking Class featuring Mark Gold, Executive Chef from Cafe Pinot, in his class "Sumptuous Seafood." Please see the calendar for a complete list of exciting classes for 2003.

Peg Rahn and Mark Gold.



Photos: Walt Mancini

MARK YOUR CALENDAR

February 8 & 9
SOUTH COAST CLASSIC
MODEL HORSE EXHIBIT
10:00 am - 4:00 pm

February 16
WILD MUSHROOM FAIR
9:00 am - 4:00 pm

March 1-2
MONROVIA ROCK HOUNDS
THE 44TH ANNUAL GEM
AND MINERAL SHOW
9:00 am - 4:30 pm

March 22-23
ORCHID SHOW
Sat. 9:00 am - 5:00 pm
Sun. 9:00 am - 4:00 pm

March 29-30
IKEBANA INTERNATIONAL
Sat. Noon - 4:00 pm
Sun. 9:00 am - 4:00 pm

March 29 - April 6
BOTANICAL ART
EXHIBITION
10:00 am - 4:30 pm

April 2
ETHNOBOTANICAL
LECTURE SERIES
DR. JOHN KRESS,
THE SMITHSONIAN

April 5-6
SPRING IRIS SHOW
Sat. 12:30 pm - 4:30 pm
Sun. 9:00 am - 4:30 pm

April 19-20
AMARYLLIS & BULB
SHOW & SALE
Sat. 9:00 am - 4:00 pm
Sun. Noon - 4:00 pm

April 26-27
ROSE SHOW
Sat. 1:00 pm - 5:00 pm
Sun. 9:00 am - 3:30 pm

April 26 & 27
FLOWER ARRANGING
SHOW/LAS ARTISTAS
DE FLORES
Sat. 11:00 am - 5:00 pm
Sun. 10:00 am - 4:00 pm

JUST FOR KIDS



FAMILY ADVENTURES

Beginning January 4, on the first Saturday of each month at 2:00pm in the afternoon, under the BIG Oak Tree in front of Ayres Hall, it's Family Adventure time! Each Saturday will have a different theme relating to nature or the environment, and will include a variety of activities as well as a take-home nature craft activity.

Cost is \$10 per family for members, \$14 per family for non-members. Pre-registration preferred; walk-on registration will be accepted while craft supplies last. In the event of rain, the program for that day will be cancelled.



JANUARY 4

AMAZING CARNIVOROUS PLANTS!

See these amazing plants, tour the Tropical Greenhouse and make a Family Terrarium. See article on this page about carnivorous plants.

FEBRUARY 1

PAPER OLD AND NEW!

Learn how paper was made from papyrus a long time ago, see it growing near the lake and learn how to make your own paper.

MARCH 1

MORE TREES PLEASE!

Take a walking tree tour around The Arboretum, learn tree folklore and make leaf magnets to take home!

APRIL 5

BAMBOO FOR YOU!

Take a hike through the bamboo forest and learn how bamboo grows, and how it is used! Make your own bamboo rain stick!

"GARDEN SPROUTS" - SATURDAY KIDS GARDENING CLUB!

Calling all 5-8 year olds! This class is just for you. No parents allowed! Join us on the first Saturday of each month, January 4, February 1, and March 1 from 9:00am - 11:00am.

Days are filled with planting and tending the kids-only garden, playing nature games and learning gardening crafts and folklore! Kids will plant their own flowers to take home, make garden art and enjoy the food that they have grown in their Arboretum garden!

Members - \$25/quarter, or \$10/Saturday; Non-Members - \$30/quarter, or \$12/Saturday. Pre-registration for this event is required.

MARCH 8, 9:00 AM TO 3:00 PM

ENVIRONMENTAL EDUCATION FAIR

Kid's will learn about the environment, conservation and ecology through hands-on natural science projects, free demonstrations and nature games. Free with admission to The Arboretum. For more information visit www.creec.org

APRIL 11, 12, 13—9:00 AM TO 5:00 PM

THE ARCADIA INSECT FAIR

Fun for the entire family. Local and exotic insects, spiders, scorpions, educational displays, equipment, books and supplies, bug shirts and toys. Free with admission to The Arboretum.

Carnivorous Plants

You know that animals eat plants but did you know that some plants eat animals?

They attract, capture, kill, digest, and absorb their prey. Because they digest and absorb their prey, these plants are called carnivorous plants.

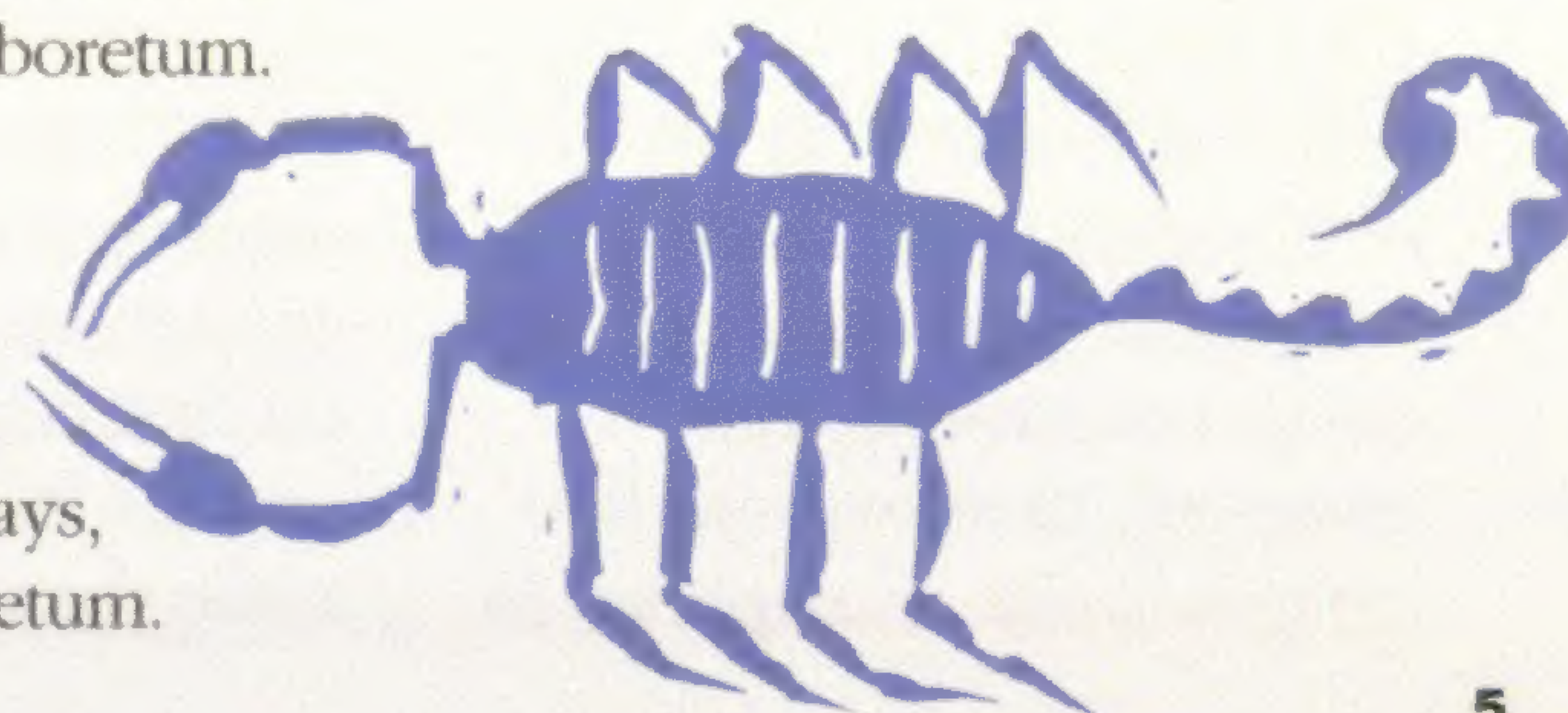
You have probably heard of the Venus Fly Trap, the best-known carnivorous plant. But did you know there are hundreds of other carnivorous plants in the world. Most are found in wetland areas of Asia and South America. In the U.S. they can be found in coastal areas of the south-east and Pacific Northwest.

The largest of the carnivorous plants is the pitcher plant *Nepenthes* from Asia. It can grow to be 30 feet tall. Its urn style traps, called pitchers, can measure 12 inches in length and hold lots of digested insects. Pitcher plants also eat small mammals and reptiles that attempt to steal the insects from the trap.



Each "pitcher trap" has a lid and its inner surface is smooth with hairs that point down, leading prey into the trap.

Carnivorous plants use lots of tricks to attract and capture their prey. Some have brightly colored patches on their traps to attract prey, some have sweet scents, some have sticky and gummy parts, or are slippery and wet, or shaped in a way that prevents their prey from escaping. Enzymes and bacteria help break down the animals that get trapped.



PHOTOSYNTHESIS – WE DON'T JUST EAT IT, WE ALSO BREATHE IT

Most people are aware of the fact of photosynthesis taking place all around them. Plants absorb light from the sun and use the energy in that light to convert carbon dioxide (CO₂) into new plant material.

There is also good general understanding that photosynthesis is the basis of all life on this planet.

Photosynthetic organisms, plants on land, and algae and photosynthetic bacteria in the oceans, are at the base of all food chains. Organisms eat them and are eaten by other organisms, and they, in turn, are eaten by yet other organisms in a food pyramid that ultimately gets to the level of humans, more quickly if you are a vegetarian and a bit slower if you are not.

At this level of understanding of the process, it is obvious that if photosynthesis were to stop tomorrow, almost all life on earth would cease to exist, the exceptions being a limited number of organisms that make a living on inorganic chemicals found in certain unusual environmental circumstances (e.g., hydrogen sulfide found in hydrothermal vents in the deep ocean).

It turns out that we owe even more to photosynthesis than that. Delving into a bit more detail, photosynthesis as carried out by all land plants and algae, and many photosynthetic bacteria, involves converting CO₂, light and water into sugar plus oxygen (O₂). The sugar is used to generate new plant material, and oxygen, a byproduct of the process, is released.

Going back 2 to 3 billion years ago, when this version of photosynthesis (known as "oxygenic" photosynthesis for oxygen-producing) first appeared, there was no free oxygen in the atmosphere. In

fact, for up to 1 billion years after the appearance of oxygenic photosynthesis, the oxygen that was released was rapidly converted to water. At some point between 1 and 2 billion years ago, free oxygen began to appear in the atmosphere. That was bad news for many organisms because oxygen is a pretty toxic molecule (but that is another story) and mass extinctions clearly resulted from this development.

However, the appearance of oxygen in the atmosphere was a seminal event for other organisms because it allowed for the evolution of aerobic respiration. That is the process by which organisms metabolize sugars to produce the energy needed to carry out all the reactions that go on in a living cell. Chemically, aerobic respiration converts sugar and oxygen to CO₂, water and energy, the exact reverse of photosynthesis.

The significance of aerobic respiration to evolution results from the fact that it produces 18 times more energy per unit of sugar used than energy metabolisms that take place in the absence of oxygen (e.g., fermentations). This had a huge effect on evolution because organisms were no longer forced to live on the edge energetically speaking; they suddenly had struck it rich. This led directly to the evolution of the first multi-celled organisms because organisms now produced enough energy to make specialized cells and tissues, a process that has continued on a line through to the appear-

ance of our own species.

Life could exist on earth without free oxygen, but it would be relegated to a collection of single-celled organisms living in aqueous environments. Because humans still rely on aerobic respiration, we have become totally dependent upon oxygen in the atmosphere, and the continued production of that commodity requires continued photosynthesis. As an aside, free oxygen in the atmosphere also led to the appearance of the ozone layer, without which organisms could not live on land, except possibly somewhere like under a rock.

There is much else about



the details of photosynthesis that is fascinating. However, the primary point I would like to get across here is that humans are totally dependent upon photosynthesis, not only as the basis for all of our food production, but also for continuing to produce the oxygen needed to allow us to convert that food into all the components that make up our cells and tissues. Remember that, not only when you sit down to breakfast, but also beforehand during your morning jog.

Contributed by

James M. Siedow, Ph.D.

Vice Provost for Research,

Duke University

APRIL 5, 2003

1ST ANNUAL KOREAN GARDEN FESTIVAL

Celebrating the 100th Anniversary of Korean Immigration to the United States

The First Annual Korean Garden Festival will be held on Ayres Hall lawn on Saturday, April 5, from 9:00 am to 4:30 pm. This all-day cultural event will highlight the Korean culture in a garden setting, sharing with the community at large Korean traditional gardens, music, art, dance, and food.

For the day, Ayres Hall lawn will be transformed into a Korean Village. Several Korean Garden displays, designed by local Korean landscape designers, will highlight the festival. The Korean Village will also feature a food court with traditional Korean foods, various forms of traditional Korean music and dance (including a children's choir), Korean art exhibition, Tae Kwon Do demonstrations, and informal demonstrations and lectures on gardening.

DON'T MISS THIS EXCITING CLASS: The ABC's of Plants taught in Korean by Jae Soon Song on Saturday, April 19, from 2:00-4:00pm in Lecture Hall A. The cost is \$15 for members and \$18 non-members.

GARDENING & COOKING IN A MEDITERRANEAN CLIMATE

As Southern Californians, not only do we enjoy the rare beauty of a Mediterranean climate, but also the flavorful cuisine that is characterized by fruits, vegetables and nuts.

In this class, the second installment of "Gardening & Cooking in a Mediterranean Climate," instructors Jill Vig, Curator of the Water Conservation Garden at The Arboretum, and Chef Steven Mary of Pasadena's Ritz-Carlton, will present a new palette of plants.

During the first hour, Jill will discuss the history and culture of the featured plant. In the second hour, Chef Steven will demonstrate his stunningly original recipes using the plant. Classes conclude with a light lunch to sample the dishes created.

CLASS FEATURES:

March 11 Fig
March 18 Pomegranate
March 25 Lavendar
April 1 Piñon (Pine) Nut
April 8 Artichoke/Cardoon
April 15 Persimmon

This is a series-only course. Cost is \$95 for members, \$115 for non-members.

Reservations are necessary, as space is limited. To register, please call 626-821-4623.



AT THE GIFT SHOP

MARC'S PICKS FROM THE BOOK CORNER

Greetings plant lovers! We have some new book offerings for you!

For hot spring & summer color, we have Susan Roth's *Hot Plants for Cool Climates*, a tropical odyssey into great planting combos. \$35.00

Another book of interest is *The New Native Garden*, by Paul Urquhart, explaining Australian natives for home landscapes in warm climates.

Lastly, from Norton Publishing, *Interior Landscapes, Horticulture & Design*, a marvelous journey in creating both lush tropical or Zen sparse planting in limited spaces for intimate settings.

The Arboretum Gift shop is open daily, 9:00am to 4:30pm.

Please drop by and browse our book section.

We also welcome special orders!



ORIENTATION BEGINS IN MARCH

BECOME AN ARBORETUM VOLUNTEER

Warm up as winter wanes and put a spring in your step—join The Arboretum's volunteer team! The spring New Volunteer Orientation Series will be offered at The Arboretum on three consecutive Saturdays: March 15, 22, and 29, from 9:00am to noon.

These sessions are the first of two orientations offered annually by Los Voluntarios, The Arboretum's volunteer organization. The March classes are a condensed version of the six-week-orientation series, which will take place in the fall.

Participants will be treated to interesting behind-the-scenes tours of The Arboretum. Arboretum staff and volunteers will present

lectures and discuss the diverse opportunities that are available to volunteers at the pastoral 127-acre botanical garden and wildlife refuge.

Los Voluntarios, over 250 strong, play a key role at The Arboretum. Volunteers can be seen in the charming gift shop, in the numerous theme gardens, in the offices, leading school tours, and assisting with special events. Last

year over 270 adult and junior volunteers contributed approximately 2,000 hours to Baldwin Bonanza, The Arboretum's premier fundrais-

ing event. The 2002 Baldwin Bonanza Festival of Plants was the biggest and best ever and illustrates how teamwork between staff and volunteers is a recipe for success.

For more information and to obtain an application, please call Nancy Pirovano, volunteer coordinator, at (626) 821-4623.



Graduates of the fall Los Voluntarios new orientation series in The Arboretum's historical Coach Barn with fellow volunteers and Arboretum staff.

Please Join us for a Party on May 2!
Baldwin Bonanza
2003 Preview Party

As the prelude to Baldwin Bonanza Festival of Plants 2003, The Arboretum will host its Annual Baldwin Bonanza Preview Party and Silent Auction on Friday, May 2, 2003. This year's event is expected to be the most exciting gardening and botanical festival in Southern California.

Preview Party guests will have the opportunity to stroll through extensive plant gallery displays and visit beautiful landscape exhibits, designed by some of the most well known landscape designers in the Southern California area.

Most importantly, Preview Party guests will enjoy first pick of thousands of exciting and unique plants from The Arboretum collection and participating nurseries.

Wonderful cuisine from some of our community's finest chefs, along with an open bar for refreshments, will be featured and party goers will be able to partake in the excitement of a Silent Auction, featuring a tempting array of valuable gifts, trips, art, jewelry and other items.

The proceeds of the Baldwin Bonanza Preview Party and Silent Auction are to benefit The Arboretum. Tickets for this event are by reservation only and will be available for purchase through The Arboretum starting in March.



AT THE ARBORETUM MAY 2, 3 & 4:
**33rd FESTIVAL OF PLANTS
SALE & GARDEN GALLERIES
CELEBRATION**

Preview Party Fundraiser
Friday, May 2 from 4:30 to 8:00pm

Members Only Plant Sale
Saturday, May 3 from 8:00 to 9:00am

Public Plant Sale
Saturday, May 3 and Sunday, May 4
from 9:00am to 4:30pm

The Arboretum
of Los Angeles County

301 North Baldwin Avenue
Arcadia, CA 91007-2697
(626) 821-3222

Non Profit
Organization
U.S. Postage
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Arcadia, CA
No. 528

Admission

\$5 Adults, \$3 Students
and Seniors, \$1 Children 5-12,
Free for children under 5
and Arboretum members

Hours

9:00 am to 4:30 pm daily
Closed December 25
www.arboretum.org